

ABSTRACT OF THE DISCLOSURE

Systems and methods are disclosed for a multi-level level shifter circuit having a single ended input and adapted to translate one or more signals from one voltage level to another. More specifically, the present invention provides a level shifter that doesn't require a complementary input or an additional power supply if the complementary signal isn't available. One embodiment of the level shifter circuit device having a single-ended input comprises at least three transistor devices. The first transistor device is coupled to at least the input and is adapted to have a threshold voltage less than 0V. The second transistor device is coupled to at least the first transistor device, while a level shifter transistor device is coupled to at least the first and second transistor devices.